CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/CEMENT/2016-17 Date: 06.04.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr . M. Srinivasa Murthy** #17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86
***NAME OF THE WORK**	:	Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.
***REFERENCE**	:	AEE(KSB)/PR/16-17 Dated: 04.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	04.04.2016
PERIOD OF TESTING	:	04.04.2016 to 06.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AE-8

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Civil-Tech Consultants & Engineers Bangalore

Note:

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****

VISHWANATH .C
Quality Manager

6/10

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Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/SAND-Gradation/2016-17 : 06.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr . M. Srinivasa Murthy**
#17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86

*** Name of Work** : Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.

*** Reference** : AEE(KSB)/PR/16-17 Dated: 04.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 04.04.2016

Date of Testing : 06.04.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.50	90-100	90-100	90-100	95-100
2.36	76.50	60-95	75-100	85-100	95-100
1.18	57.50	30-70	55-90	75-100	90-100
600 Micron	32.00	15-34	35-59	60-79	80-100
300 Micron	17.50	5-20	8-30	12-40	15-50
150 Micron	8.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

AE-B

Remarks : This sample is under Zone-I specific limits.

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Assistant Executive Engineer Kodigehalli Sub Division, Yelahanka, B.B.M.P Bangalore

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Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/AGG/2016-17 : 06.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr . M. Srinivasa Murthy**
#17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86

*** Name of Work** : Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.

*** Reference** : AEE(KSB)/PR/16-17 Dated: 04.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 04.04.2016

Date of Testing : 06.04.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.60	95-100	85-100
20	44.30	30-70	0-20
10	22.80	10-35	0-5
4.75	2.65	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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VISHWANATH .C
Quality Manager

AE-8
Assistant Executive Engineer.
Kodigehalli Sub Division,
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Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/AGG/GR/2016-17 : 06.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr . M. Srinivasa Murthy**
#17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86

*** Name of Work** : Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.

*** Reference** : AEE(KSB)/PR/16-17 Dated: 04.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 04.04.2016

Date of Testing : 06.04.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.14	95-100	85-100
10	31.90	25-55	0-20
4.75	5.00	0-10	0-5

A&B

Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Yelahanka Zone, Bangalore.

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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T-2377

Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/CUBE/2016-17 17.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr . M. Srinivasa Murthy**
#17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86

* **Name of the work** : Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.

* **Reference** : AEE(KSB)/PR/16-17 Dated: 16.05.2016

* **Sample ID** : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 17.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2016	17.05.2016	8.188	478.3	21.26
2	19.04.2016	17.05.2016	8.190	492.6	21.89
3	19.04.2016	17.05.2016	8.210	510.3	22.68

AE-8

1

Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P, Yelahanka, Bangalore.

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T-2377

Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/CUBE/2016-17 20.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr . M. Srinivasa Murthy** #17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86
* Name of the work	: Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.
* Reference	: AEE(KSB)/PR/16-17 Dated: 16.05.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 20.05.2016

A&B

1

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2016	20.05.2016	8.160	485.6	21.58
2	22.04.2016	20.05.2016	8.170	493.1	21.92
3	22.04.2016	20.05.2016	8.205	508.9	22.62

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Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/CUBE/2016-17 20.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* **Agency**	: **Mr . M. Srinivasa Murthy** #17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86
* **Name of the work**	: Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.
* **Reference**	: AEE(KSB)/PR/16-17 Dated: 16.05.2016
* **Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* **Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 20.05.2016

AE-8

Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Yelahanka Zone, Bangalore.

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2016	20.05.2016	8.190	493.1	21.92
2	22.04.2016	20.05.2016	8.188	499.2	22.19
3	22.04.2016	20.05.2016	8.210	512.3	22.77

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Job No.: CTCE/BBMP/W.No.08/MSM/CSR-04/003i/CUBE/2016-17 21.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* **Agency**	: **Mr . M. Srinivasa Murthy** #17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86
* **Name of the work**	: Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.
* **Reference**	: AEE(KSB)/PR/16-17 Dated: 16.05.2016
* **Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* **Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 21.05.2016

AE-8

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.M.P., Bangalore.

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2016	21.05.2016	8.175	494.3	21.97
2	23.04.2016	21.05.2016	8.180	495.6	22.03
3	23.04.2016	21.05.2016	8.205	508.1	22.58

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: **Mr . M. Srinivasa Murthy** #17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86
* Name of the work	: Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.
* Reference	: AEE(KSB)/PR/16-17 Dated: 16.05.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 21.05.2016

A&B

Assistant Executive Engineer, Kodigehalli Division, Yelahanka Zone, B.B.M.P., Bangalore.

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2016	21.05.2016	8.199	493.3	21.92
2	23.04.2016	21.05.2016	8.210	499.9	22.22
3	23.04.2016	21.05.2016	8.220	512.3	22.7

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/MSM /STEEL/2016-17 15.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr . M. Srinivasa Murthy** #17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86 .
Name of the work	:	Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.
Reference	:	AEE(KSB)/PR/16-17 Dated: 04.04.2016
Date of Test	:	15.04.2016
Technical Reference	:	IS: 1786-2008

A&B

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1.	10	0.62	512	555	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.08/MSM /STEEL/2016-17 15.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr . M. Srinivasa Murthy** #17, Jyothi gas godown, 6th cross, Kurubarahalli, Bangalore-86 .
Name of the work	:	Improvements to Roads and Drains at TATA nagara Surroundings in Ward No.08, Kodigehalli Sub Division BBMP, Bangalore.
Reference	:	AEE(KSB)/PR/16-17 Dated: 04.04.2016
Date of Test	:	15.04.2016
Technical Reference	:	IS: 1786-2008

AE-B

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	16	1.58	522	564	13.25	O.K	O.K

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